D-704-8

BREAKAWAY SYSTEMS FOR CONSTRUCTION ZONE SIGNS

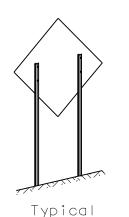
FLANGED CHANNEL

∕Retainer Strap

STEPS OF INSTALLATION

- 1. A) Drive anchor unit to within 12" of ground level.

- A) Drive anchor unit to within 12" of ground level.
 B) Proper assembly established by lining up the top 3/4" slot of retainer spacer strap with top hole of anchor unit.
 C) Assemble strap to back of anchor unit using 3/8"-16 UNC x 2.0" long bolt, lock washer and nut.
 D) Rotate strap 90° to left.
 A) Drive anchor unit to 4" dimension.
 B) Rotate strap to vertical position.
 A) Place 3/8"-16 UNC x 2" bolt, lock washer & nut in bottom of sign post to facilitate alignment of sign post with proper hole in anchor unit (this coincides with the bottom 3/4" slot in the strap).
 B) Alternately tighten two connector bolts.
 A) Complete assembly by tightening 3/8"-16 UNC x 2" long retainer bolt (this fastens sign post to retainer spacer strap).
 The base post, strap & sign post shall be properly
- 5. The base post, strap & sign post shall be properly nested. Proper nesting occurs when all flat surfaces of the base post, strap and sign post at the bolts have full contact across the entire width.



Insťállation

3 LB/FT U POSTS

Notes

- 1. Use 3 lb/ft riser anchor units and risers

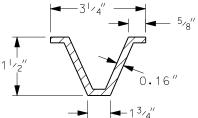
- and risers

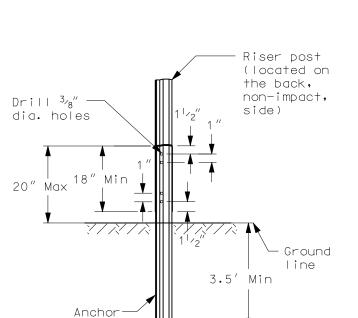
 2. Driven riser posts shall be at least 7' long and embedded at least 3.5'.

 3. A splice shall overlap a minimum of 18".

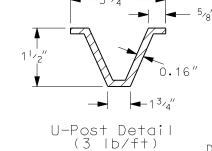
 4. Use 4 bolts 5",6" diameter with washers and nuts. Two at top and two at bottom of splice.

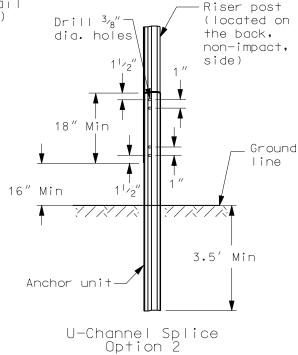
 5. Anchor unit for guy wires shall be no more than 4" above ground and embedded at least 3.5'.





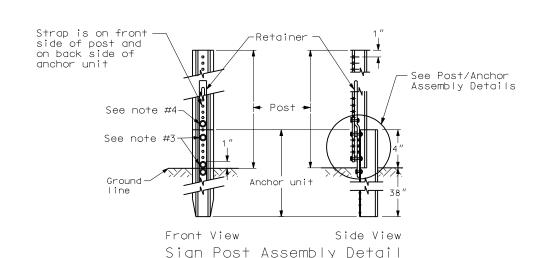


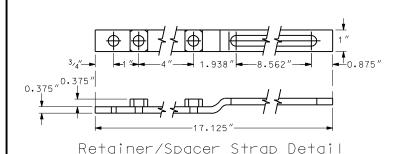




	NORTH DAKOTA NT OF TRANSPORTATIO						
07-28-93							
REVISIONS							
DATE	CHANGE						
11-21-02	Revised U-post detail Deleted perforated tu Revised U-Channel splice						
	PE stamp added Revised flanged chann						

This document was originally issued and sealed by MARK S GAYDOS Registration Number PE-4518, on 06/29/05 and the original document is stored at the North Dakota Department of Transportation





CHANNEL	SS	T OT	OF A	SEA.	NO LUS			
SIZE	AA.	BS.	FR. 7	10.0				
IN.	THICKNE	PER	OMEN INER	ŖP≅.	SEC			
			Σ	Ŋ				
1.516 x 3.125"	.116	2.00	.179	.590	.225			
1.532 x 3.125"	.124	2.25	.201	.648	.254			
1.562 x 3.125"	.132	2.50	.233	.748	.289			
1.578 x 3.125"	.140	2.75	.271	.819	.329			
1.750 x 3.500"	.150	3.00	.372	.918	.403			
1.750 x 3.500"	.175	4.00	.500	1.190	.560			

Anchor unit

See note #4-

See note #10

See note #3

Anchor Unit &

~−Post

∠See note #1B

Post/Anchor

Assembly Details

- Anchor unit

Strap Assembly Detail